Ssd update

- Normalization of the gain value
- New method to apply the gain table

Gain wafer table

- 1 gain per wafer (for all ssd -->320 gain)
  - Gain = mean_adc_sideN / mean_adc_sideP
- Processed by reading adc values from P and N sides strips in a given wafer
- But we aso write the mean_adc_side* per wafer and per chip.
- We have 6 FEE chips per wafer
- So the normalization is to take :

  $\text{mean\_adc\_side*} = \Sigma(\text{mean\_adc\_side*})_{chip} / 6$
- This will define the gain for this wafer.

Example

- chip 1 0.98957
- chip 2 1.01948
- chip 3 0.983655
- chip 4 0.926841
- chip 5 1.00321
- chip 6 1.03697

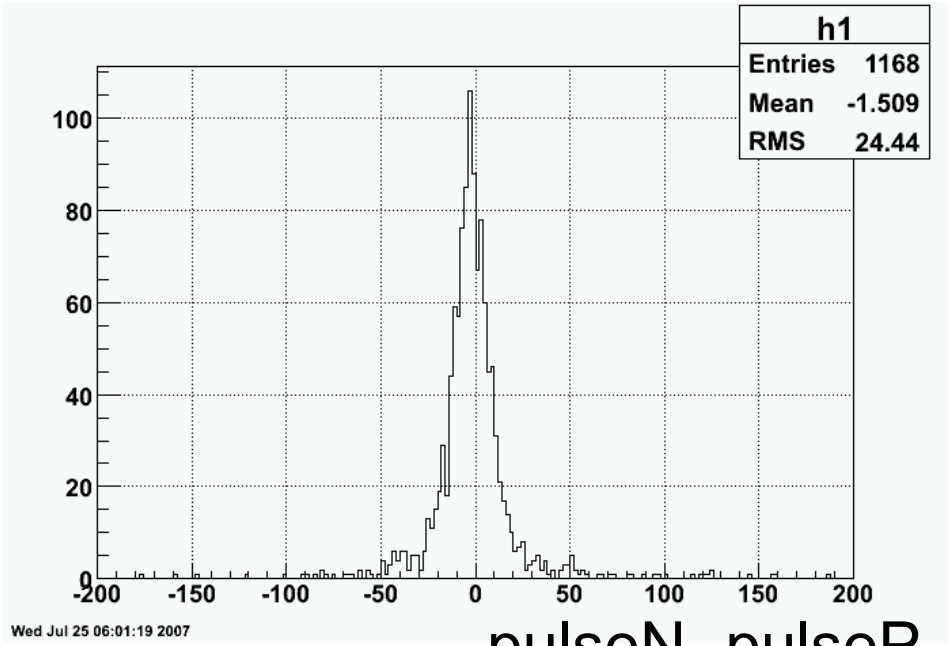
Sum = 0.993288

It has to be compared to the measurement when we calculate over all strips in a wafer :

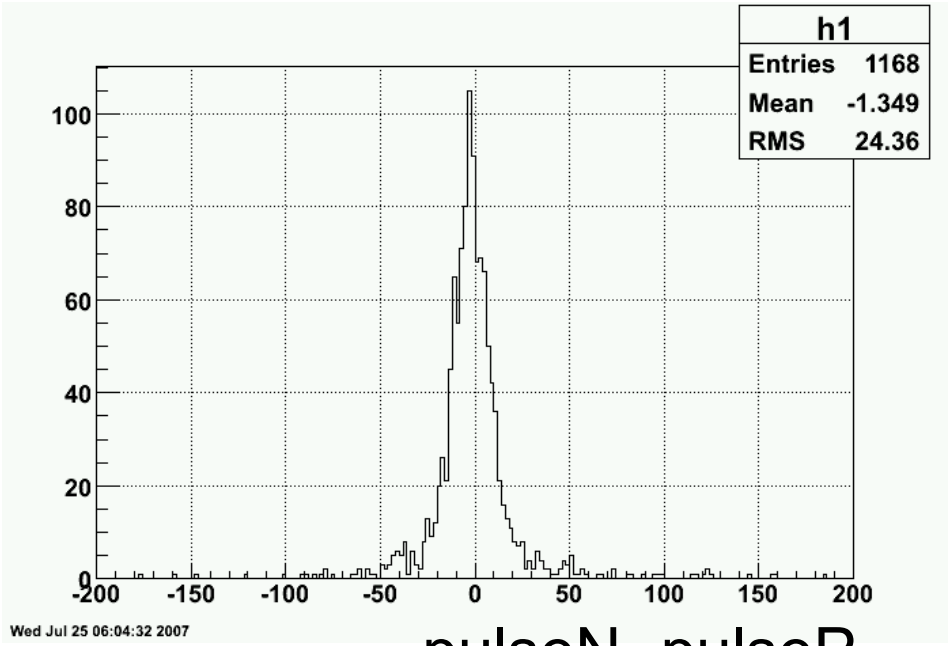
Gain = 0.991494

1 wafer = 6 gain

CuCu data



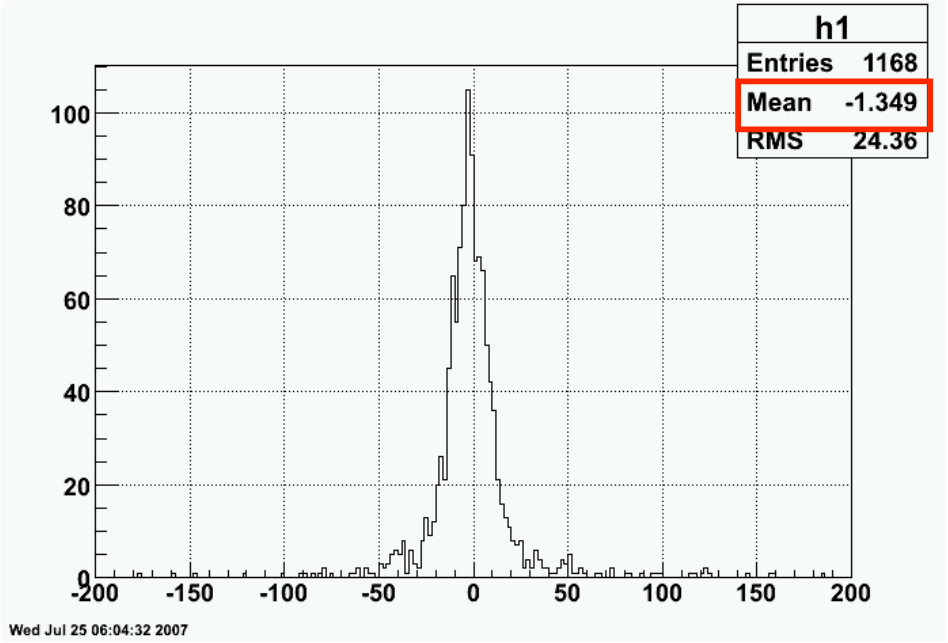
pulseN -pulseP

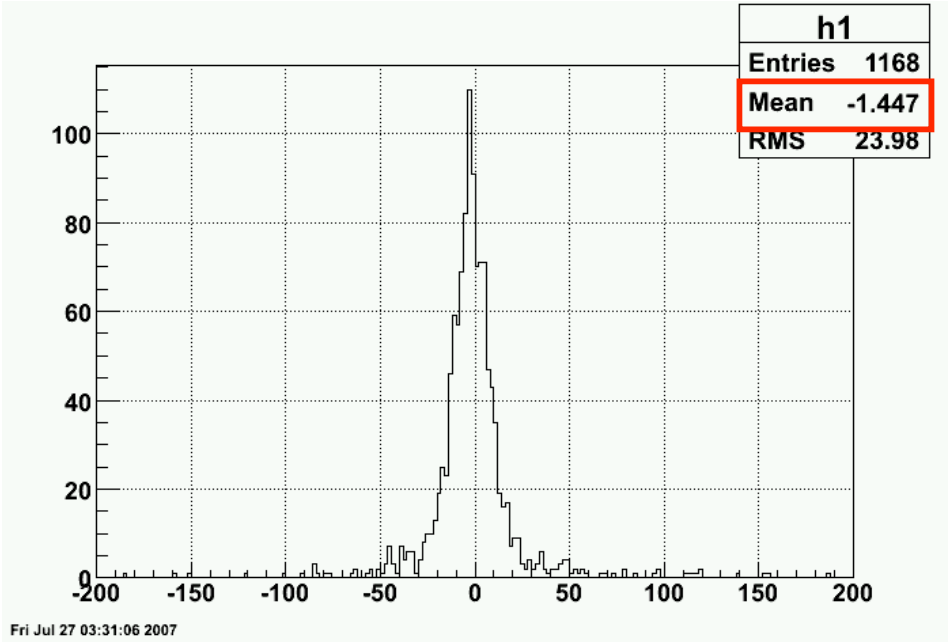


pulseN -pulseP

-->small improvement

New method to apply the gain





Old method
(rotating vector)

new method
(scaling)

- also compared with another ladders
- The change are in the same order